



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.:	<b>IECEX BVS 07.0007X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2019-02-27)
Date of Issue:	2019-10-24		Issue 2 (2016-10-07)
Applicant:	<b>Steute Technologies GmbH &amp; Co. KG</b> Brückenstraße 91 32584 Löhne Germany		Issue 1 (2014-05-12)
Equipment:	<b>Magnetic switch type Ex RC*****</b>		Issue 0 (2007-04-12)
Optional accessory:			
Type of Protection:	<b>Equipment protection by encapsulation "m"</b>		
Marking:	Ex mb IIC T6 Gb Ex mb IIIC T80°C Db		

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Franz Eickhoff**

Position:

**Deputy Head of Certification Body**

Signature:  
(for printed version)

  
\_\_\_\_\_

Date:

  
\_\_\_\_\_

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Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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Certificate No.: **IECEX BVS 07.0007X**

Page 2 of 4

Date of issue: 2019-10-24

Issue No: 4

Manufacturer: **Steute Technologies GmbH & Co. KG**  
Brückenstraße 91  
32584 Löhne  
Germany

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-18:2017** Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/EXTR07.0008/03](#)

Quality Assessment Report:

[DE/BVS/QAR06.0023/11](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEX BVS 07.0007X**

Page 3 of 4

Date of issue: 2019-10-24

Issue No: 4

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

### **Description**

The magnetic switch is designed in type of protection Encapsulation "m" and will be used for the implementation of switching operations.

### **Subject and Type**

See Annex

### **Parameters**

See Annex

### **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The ends of the permanent cables have to be connected inside enclosures that have been certified for the use in the relevant Category accordingly.
- The short circuit current  $I_k$  of the supply source may not exceed the mentioned parameters, ensured by an external protective device.
- The magnetic switch type Ex RC 12\*\*\*\*\* must be assembled in a way that is protected from mechanical hazards.
- The magnetic switch type Ex RC\*\*\*\*\*4 J must be assembled in a way that is protected from mechanical hazards.



# IECEX Certificate of Conformity

Certificate No.: **IECEX BVS 07.0007X**

Page 4 of 4

Date of issue: 2019-10-24

Issue No: 4

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- Extension of the type code
- Updating of the applicable standards.
- New reed contacts DRS-DTH and HSR-834W
- Extension of the electrical rating
- New magnetic switch type Ex RC M20\*\*KST -50 °C\*

## **Annex:**

[BVS\\_07\\_0007X\\_Steute\\_Annex\\_issue4.pdf](#)



# IECEX Certificate of Conformity



**Certificate No.:** IECEx BVS 07.0007X issue No.: 4  
**Annex**  
**Page 1 of 2**

## Subject and Type

Magnetic switch type Ex RC\*\*\*\*\*

- |             |                                       |
|-------------|---------------------------------------|
| 1. Asterisk | Housing design:                       |
|             | 12 Diameter 12 mm                     |
|             | 13.5 Diameter 13.5 mm                 |
|             | M14 Mounting thread M14 x 1           |
|             | 15 Diameter 15 mm                     |
|             | M20 Mounting thread M20 x 1,5         |
|             | 2580 Housing dimensions 25 mm x 80 mm |
| 2. Asterisk | Contact function:                     |
|             | W Change-over contact                 |
|             | Wr Change-over contact latching       |
|             | S Normally open contact               |
|             | Sr Normally open contact latching     |
|             | Ö Normally closed contact             |
| 3. Asterisk | Cable length                          |
| 4. Asterisk | Housing material                      |
|             | Blank Brass                           |
|             | KST Thermoplastic                     |
|             | Niro Stainless steel                  |
| 5. Asterisk | Lower ambient temperature range       |
|             | Blank -20 °C                          |
|             | -40 °C -40 °C                         |
|             | -50 °C -50 °C                         |
|             | -60 °C -60 °C                         |
| 6. Asterisk | Allowed impact                        |
|             | Blank 7 Joule                         |
|             | 4J 4 Joule                            |
| 7. Asterisk | Approval                              |
|             | GL German Lloyd                       |



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**Certificate No.:**

**IECEx BVS 07.0007X issue No.: 4**

**Annex**

**Page 2 of 2**

## Parameters

### Electrical Data

Switching voltage	up to	AC	250	V
Switching current*	up to		1.5	A
or	up to		0.35	A
Switching power for change-over contact and for normally closed contact	up to		50	VA/W
Switching power for normally open contact	up to		100	VA/W
Short-circuit current $I_k$ for change-over contact and for normally closed contact	up to		2	A
Short-circuit current $I_k$ for normally open contact	up to		5	A

\* = depending on reed contact used

### Thermal Data

Ambient temperature range (Marking on the nameplate)	-20 °C up to +40 °C
or	-20 °C up to +70 °C
or	-40 °C up to +70 °C
or	-50 °C up to +70 °C
or	-60 °C up to +70 °C